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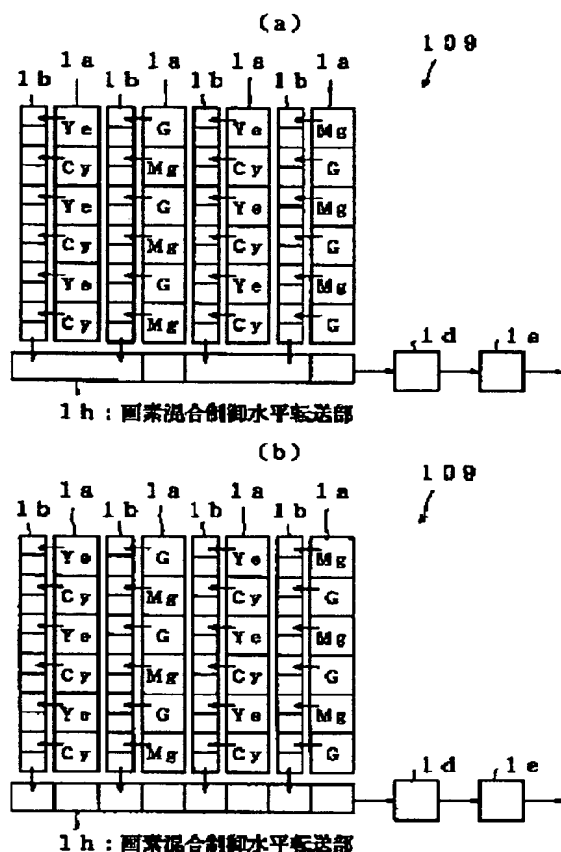
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TITLE : IMAGE PICKUP DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To obtain a moving picture and a high-quality still picture with an image pickup device that reads all pixels.

SOLUTION: In this image pickup device 109, a light receiving part 1a in which photoelectric transducers are two-dimensionally arranged is provided with a color filter that has color components of Ye, G, Ye, Mg,... in odd lines and with a color filter that has color components of Cy, Mg, Cy, G,... in even lines. A vertical transfer part 1b independently transfers signal charge outputted from these PDs in a vertical direction. A pixel mixture control horizontal transfer part 1h mixes two horizontal pixels and transfers them in moving picture mode and independently transfers each pixel in a still picture mode. And, pixel pairs of odd and even lines are added and are converted into a luminance signal and the pixel pairs of the odd and even lines are subtracted and are converted into a color-difference signal. Thus, the drive frequency of the image pickup device can be reduced at the time of generating a pixel signal of progressive scanning in the moving picture mode.

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